

# PROFILES OF SPEAKERS

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## **THE HONOURABLE DATUK AMAR LEO MOGGIE**

**Minister of Energy**

**Ministry of Energy, Communications and Multimedia (MECM)**

**Malaysia**

Honourable Datuk Amar Leo Moggie is the Minister of Energy, Communications and Multimedia Malaysia. His political career began in 1974 when he was elected as a Member of Parliament and Member of the Sarawak Legislative Assembly.

He served as a Cabinet Minister in the State Government of Sarawak from 1976 to 1978. He was appointed the Minister of Energy, Telecommunications and Posts Malaysia in 1978 until 1989. He became Minister of Works Malaysia from 1989 to 1995, after which he was re-appointed as Minister of Energy, Telecommunications and Posts Malaysia. The Ministry was renamed Ministry of Energy, Communications and Multimedia effective 1 November 1998.

## **HIS EXCELLENCY PETER VARGHESE**

**Australian High Commissioner to Malaysia**

Peter Varghese was born in Kenya and migrated to Australia as a young child. He graduated from University of Queensland and is married with one son.

Mr Varghese joined the Department of Foreign Affairs in 1979 and has served in Vienna (1980-1983), Washington (1985-1988) and Tokyo (1994).

He was Director of Speech Writing Unit (1988-1990), Assistant Secretary, Personnel (1991-1992), First Assistant Secretary, Public Affairs Division (1994-1996) and helped draft Government White Paper on Foreign Affairs and Trade policy (1996-1997), and was First Assistant Secretary, International Security Division (1997).

Mr Varghese was seconded to the Department of Prime Minister and Cabinet to Head International Division (1998), and he was appointed Australian High Commissioner to Malaysia in 2000.

**HIROSHI HIROTA****Deputy Director-General for Coal & Mineral Resources Policy****Agency of Natural Resources and Energy (ANRE)****Ministry of Economy, Trade and Industry (METI)****Japan**

Education: The University of Tokyo, Faculty of Engineering, 1974

***Work History:***

April 1974	(Former) Ministry of International Trade and Industry (MITI)
July 1988	Planning Officer, Minister's Secretariat, MITI
July 1988	Regional Technology Planner, General Coordination Department, Agency of Industrial Science and Technology, MITI
Feb. 1990	Research and Development Coordinator, General Coordination Department, Agency of Industrial Science and Technology, MITI
June 1991	Head, Coal Mining Area Development Office, Coal Industry Division, ANRE, MITI
July 1994	Head, Petroleum Refining Division, Petroleum Department, ANRE, MITI
June 1998	Head, Economic Cooperation Division, Economic Cooperation Department, International Trade Policy Bureau, MITI
June 1998	Head, Regional Bureau Administration Division, Minister's Secretariat, MITI
Jan. 2001	Name was changed from MITI to METI, Ministry of Economy, Trade and Industry.
January 2001	Deputy Director-General for Environmental Protection and Industrial Location Bureau, METI
January 2001	Deputy Director-General for Coal & Mineral Resources Policy, ANRE, METI

**SCOTT M. SMOUSE****Senior Management and Technical Advisor****National Energy Technology Laboratory****Department of Energy (DOE)****United States**

Scott Smouse has over 20 years experience in nearly every aspect of fossil energy utilization and power generation. Since 1999, when the U.S. Department of Energy's National Energy Technology Laboratory (NETL) was formed, he has held the position of Senior Management and Technical Advisor-International. He coordinates all international activities within the Laboratory and works with senior Department and other U.S. government officials on various international initiatives. From 1996-1999, he was the Product Manager for International Activities in the former Federal Energy Technology Center's (FETC) Office of Fuels and Specialty Markets. In the past 6 years, he has worked with about 25 countries on a variety of cooperative research, development, and demonstration (RD&D) projects; and technology transfer and policy development activities.

From 1995-1996, he was a Project Development Manager in the former Pittsburgh Energy Technology Center's Office of Clean Coal Technology, where he managed several multi-million dollar cooperative CCT demonstration projects. From 1986-1995, he held several positions of increasing responsibility in the Coal Combustion R&D Division, including being the Leader of the Pilot-Scale Combustion Group. In these positions, he also was engaged in extensive RD&D and technical assistance activities with a number of foreign countries, including India, China, Korea, and South Africa.

He worked in the Fuels Technology Group at Babcock & Wilcox Company's Research & Development Center from 1984-1986, where he conducted fuel quality and combustion research. From 1981-1982, he was a Technical Specialist for the DUSCO Division of Dearborn Chemical Company, a subsidiary of W.R. Grace Corporation, providing support for the company's sales of fuel additives to the utility industry. He started his career in 1980 with Pope, Evans & Robbins, Inc. Consulting Engineers on their USDOE-funded 30-MW<sub>e</sub> Multi-Cell Atmospheric Fluidized Bed (AFB) Boiler Project as manager of their fuels and air quality testing laboratories.

He received a B.S. degree in Chemistry from Fairmont State College in 1980 and a M.S. degree in Fuel Science (Combustion) from Penn State University in 1984. He has been very active in the American Society of Mechanical Engineers, previously serving as the Chairman of the Fuels and Combustion Technology Division and currently, is the Member-at-Large for Long Range Planning. He is also the Chair Designee for the Expert Group on Clean Fossil Energy under the Asia Pacific Economic Cooperation (APEC) forum.

### **KAZUO SUGIYAMA**

**Senior Counselor**

**Electric Power Development Company**

**Japan**

#### **Education:**

Law Faculty, University of Tokyo, 1952

#### **Major Career:**

1996: Senior Counselor, Electric Power Development Company  
1991: President, Electric Power Development Company  
1989: Executive Vice President, Nippon Steel Corporation  
1987: Managing Director, Nippon Steel Corporation  
1982: Vice Minister, Ministry of International Trade and Industry (MITI)  
1981: Director General, Industrial Policy Bureau, MITI  
1980: Director General, Minister's Secretariat, MITI  
1976: Director General, Economic Cooperation Department, MITI  
1967: Director Dusseldorf Center, JETRO  
1962: Entered Ministry of International Trade and Industry

**JANE MELANIE**

**Senior Economist**

**International Trade and Industries Directorate**

**Australian Bureau of Agricultural and Resource Economics**

**Australia**

Jane Melanie joined ABARE in 1993 and is currently a Senior Economist in the International Trade and Industries Directorate. She has been working on the analysis of energy markets for a number of years, publishing a wide range of journal articles, including in the *Journal of Energy Economics*.

In her capacity as leader of the energy market reform work program, Ms Melanie led a number of research teams on projects related to structural and regulatory reform of electricity and gas markets primarily in Australia. She has also been involved in energy market model development undertaken for a wide range of clients in Australian government and industry.

More recently, her work has focused on the general equilibrium analysis of international energy markets. In this context, Ms Melanie managed the recently published ABARE's study on the prospects for global coal markets. She was also a reviewer of the IEA's *World Energy Outlook: 2001 Insights*.

Ms Melanie has an honours degree in economics from the University of Sydney and a Master's degree from the Australian National University.

**JOHN KARAS**

**Manager**

**Coal Industries Section**

**Energy Minerals Branch**

**Coal and Mineral Industries Division**

**Department of Industry Tourism and Resources**

**Australia**

Mr Karas joined the Australian Public Service in 1980 having completed an honours degree in economics at the University of Western Australia. His first appointment was to the Australian Treasury where he worked on economic and financial issues associated with Australia's international aid program.

In 1983 he moved to the mineral resources area of the former Department of Primary Industries and Energy. In the period to 1990 he provided economic and policy advice on a range of resource industries including diamonds, base metals, aluminium and uranium.

He took up a position in the Department's central policy area in 1990 where he participated in the formulation of a national sustainable development strategy leading up to the first UN Conference on the Environment.

Since mid 1992, apart from a short period in the greenhouse policy unit, he has been working in the coal policy area of the Department. This area, together with other energy and resource functions, moved to the Department of Industry Science and Resources in 1999.

Mr Karas' work on coal has involved the full range of domestic and international issues associated with providing coal and energy policy advice to the Australian Government. He has been closely involved in the development of APEC coal activities and the strengthening of bilateral cooperation on coal between Australia and many countries throughout the region.

Mr Karas is married and has two school age children. His interests include gardening, wood working and photography.

**CHARLES J. JOHNSON, PhD**

**Consultant**

**Asian Energy-Environmental Strategies**

**United States**

**Education:**

A Ph.D. in mineral economics (specialization energy economics) from the Pennsylvania State University; and a MS degree in geology from the University of California, Riverside.

**Consultant:**

Energy and environmental strategies in Asia, with emphasis on environmentally friendly for coal. Also, the economics of coal and natural gas for electricity generation. Analyses of energy investment environments and risks in Asian countries.

**Research Area:**

(i) the long-term supply and demand of energy in Asia, (ii) economics of coal and natural gas for electricity generation, (iii) new energy fuels (coalbed methane, coal gasification, heavy oil-water mixtures), (iv) energy-related environmental trends in Asia, (v) energy policies in Asia, and (vi) investment opportunities in energy in Asia.

**Selected Consultancies:**

The Harvard Institute for International Development, Asia Foundation, Asian Development Bank, United Nations Development Program, UN Global Environment Facility, World Bank and IFC, and numerous international mining and energy companies.

**Past Employers:**

East-West Center, Ford Foundation, Commonwealth Secretariat, National Science Foundation, Botswana Government, U.S. Treasury, and Conzinc Riotinto of Australia.

**International Experience:**

He has undertaken projects in 42 economies, including the following in Asia: Cambodia, China, Hong Kong, Chinese Taipei, Indonesia, Japan, Laos, Myanmar, Mongolia, Myanmar, Nepal, Philippines, South Korea, Thailand and Vietnam.

**Publications and Awards:**

He has published over 80 articles, and been quoted in more than 30 major papers/magazines including: Wall Street Journal, Asia Wall Street Journal, International Herald, Financial Times of London, Economist magazine and Forbes. He has been interviewed on radio and TV by various news media sources including CNN. He is listed in Who's Who in Finance and Industry. He received the Centennial Fellow award from the Pennsylvania State University in recognition of his accomplishments in the field of mineral economics.

**DR CHANG-SEOB KIM**

**Policies & Measures Team Leader**

**Centre for climate Change Mitigation Projects**

**Korea Energy Management Corporation (KEMCO)**

**Korea**

Academic Career : Ph.D on Electrical Engineering, Seoul National University

**DR FRANK M MOURITS**

**Manager, Climate Change Technologies Initiative**

**Office of Energy Research and Development**

**Natural Resources Canada**

**Canada**

Dr. Frank Mourits is Manager, Climate Change Technologies Initiatives, at the Office of Energy R&D of Natural Resources Canada, Ottawa, Canada. He is responsible for managing a \$20-million dollar domestic Technology Development and Innovation Program, as well as a \$10-million dollar International Technology Initiative, both of which are aimed at helping Canada meet its Kyoto targets. Under this program, in addition to R&D work, Canada will conduct three roadmaps exercises of interest to EGCFC members, namely on clean coal technology, carbon dioxide capture and storage, and on fuel cells.

Dr. Mourits is also the Canadian Federal Government's representative on the Zero Emission Coal Alliance (ZECA), a Canadian-U.S. industry and government consortium formed to develop a zero emission coal-to-electricity technology over the next 5-10 years.

Prior to moving to his current position, Dr. Mourits was the Senior Coal Specialist in the same department. In this central position, he covered policy issues as well as technological and environmental aspects related to the Canadian domestic and export coal production and utilization chain, with particular emphasis on clean coal technology and climate change issues.

Before moving to Head Office, Dr. Mourits was a Senior Research Scientist, involved in fossil fuel conversion and petroleum recovery technology at CANMET, the R&D arm of Natural Resources Canada.

Dr. Mourits joined the Canadian Federal Government in 1989. Before that date, he was a Senior Research Chemist involved in heavy oil emulsion separation research at the Saskatchewan Research Council in Regina, Canada. He was also involved for a number of years in various coal gasification and liquefaction research projects at Saskatchewan Oil and Gas Corporation, Alberta Research Council and Saskatchewan Power Corporation.

Dr. Mourits holds B.Sc. and M.Sc. degrees in Physical Chemistry from the University of Amsterdam in the Netherlands, and a Ph.D. degree from the University of Regina, Canada.

24 April, 2002

### **DR YOSHIKI OGAWA**

**General Manager, The Second Research Department  
The Institute of Energy Economics, Japan**

Yoshiki Ogawa, who earned an undergraduate degree in chemistry and doctorate in the same discipline from Tokyo University, joined the institute of Energy Economics, Japan (IEEJ) in Tokyo as a staff economist in 1979. During 1987-1989, he was with the Energy Laboratory at Massachusetts Institute of Technology as a visiting economist. From 1989 until April 1993, the author was the section chief of the Energy and Environment Research Group and from 1993 until May 2000, he was the section chief of the Oil Industry Research Group at IEEJ. His recent primary research has been on future energy supply/demand and global warming issues with special reference to Asian developing countries. His newest position is the General Manager of the Second Research Department at IEEJ.

### **Education:**

Department of Chemistry, Faculty of Science, University of Tokyo. Dr. of Science (Chemistry), March, 1979; M.A. (Chemistry), March, 1976; B.A. (Chemistry), March, 1974

**Professional Career:**

*April, 1979 – June, 1984:*

- ◆ Staff Economist, the Institute of Energy Economics, Tokyo, Japan

*July, 1984 – March, 1986:*

- ◆ Senior Economist, the Institute of Energy Economics, Tokyo, Japan

*April, 1987 – March, 1989:*

- ◆ Visiting Economist, Energy Laboratory Massachusetts Institute of Technology  
Cambridge, Massachusetts, U.S.A.

*April, 1988 – March, 1989:*

- ◆ Dispatched Researcher of Ministry of Foreign Affairs, Japan

*April, 1989 – April, 2000:*

- ◆ Research Coordinator, Chief Economist Oil Industry Group, The Institute of Energy Economics, Tokyo, Japan

*May, 2000 – Present:*

- ◆ General Manager The Second Department of Research, The Institute of Energy Economics, Tokyo, Japan

**Professional Association:**

Member of Chemical Society of Japan (From 1973)

Member of International Association of Energy Economist (From 1990)

Member of Japan Society of Energy and Resources (From 1990)

**LOUIS WIBBERLEY**

**B Met, PhD (Chemical Engineering)**

**BHP Billiton Technology, Newcastle**

**Australia**

Louis Wibberley is manager environment and sustainability at BHP Billiton's Minerals Technology, Newcastle, and a conjoint professor in the Engineering faculty at the University of Newcastle.

Louis graduated from metallurgy in 1975, and received a PhD in Chemical Engineering at Newcastle in 1980.

Since joining the former BHP Research in 1986, Louis has worked on both technical and environmental issues for the iron and steel, and coal industries – including the new CRC for Coal in Sustainable Development.

Since 1993, he and his team have developed a comprehensive capability in life cycle analysis and process modelling, and have helped make sustainable development a strategic theme for the Company.

The LCA capability has been used assess the environmental of the Sydney 2000 Olympics, and to develop support tools for architects, and more recently to provide a lifestyle model for educating school children.

**LUCILA Q. MARALIT**  
**Officer-in-Charge (OIC)**  
**Office of the Assistant Director**  
**Energy Resource Development Bureau**  
**Department of Energy**  
**Philippines**

Ms. Lucila Q. Maralit obtained her Bachelor of Science in Business Administration, major in Accounting at the University of the East, Manila in 1973. She passed the professional board examination for Certified Public Accountant in 1975.

Ms. Maralit also finished her masters degree in Business Administration at the Perpetual Help College of Rizal in 1997. She attended the Advanced International Training Program in Oil and Gas Financial Management at the University of Texas at Dallas in 1982 and the International Program in Audit of Energy Sector, India in 1992. She finished petroleum policy and management courses from the University of Alberta, Canada and PETRAD, Stavanger Norway in 1995 and 1998, respectively.

Ms. Maralit started her career in 1974 as Accountant of a real estate company before joining the Ministry of Energy (now Department of Energy) in 1979 where she was employed as Supervising Fiscal Examiner. She held various supervisory positions before she was promoted as Chief of the Compliance Division. As head of the division, she was involved in the formulation, implementation and enforcement of fiscal policies, rules and regulations governing the activities of coal, petroleum and service contracts.

In January 1999, she was designated as OIC-Assistant Director of the Energy Resource Development Bureau (ERDB) where she assists the ERDB Director in the formulation and implementation of policies, rules and regulations governing the exploration, development and production activities of coal, petroleum and geothermal service contractors. She has been involved also in the preparation of Philippine Energy Plan concerning the indigenous energy resources.

**HIROSHI YOSHIDA**

**Executive Director**

**New Energy and Industrial Technology Development Organisation (NEDO)**

**Japan**

**EDUCATION:**

March 1971: Graduated from the Engineering Department of Kyusyu University  
Degree in Mining

**WORK HISTORY:**

July 2000: Executive Director, New Energy and Industrial Technology Development Organization (NEDO)  
June 1998: Deputy Director-General for Director-General's Secretariat, Environment Agency  
June 1997: Deputy Director-General for Technology Affairs (Research Affairs), General Coordination Division, Agency of Industrial Science and Technology (AIST)  
June 1996: Counselor, Environmental Protection and Industrial Location Bureau, Ministry of International Trade and Industry (MITI)  
July 1994: Director, Research Administration Division, AIST  
July 1992: Director, Refining Division, Petroleum Department, Agency of Natural Resources and Energy (ANRE)  
June 1990: Director, Coal Mine Safety Office, Environmental Protection and Industrial Location Bureau, MITI  
June 1988: Director-General, General Coordination Department, Shikoku Bureau of International Trade and Industry, MITI  
July 1986: Director of Coal Liquefaction and Gasification Development Program, General Coordination Division, AIST  
Sept 1984: Director, Coal Resources Development Department, NEDO  
July 1983: General Coordination Division, Director-General's Secretariat, ANRE  
April 1981: First Secretary of Japan to Venezuela  
April 1980: Second Secretary of Japan to Venezuela  
Sept 1979: Deputy Director, Personal Division, Minister's Secretariat, MITI  
April 1971: Joined MITI

**ABDUL HADI DEROS**

**Vice-President (Generation)**

**Tenaga Nasional Berhad**

**Malaysia**

Mr Abdul Hadi Deros is currently the Vice-President responsible for the generation business of Tenaga Nasional Berhad (TNB), the biggest electricity utility in Malaysia. He is also the Managing Director/CEO of TNB Generation which is a wholly-owned generation subsidiary of TNB. It is the biggest generator and IPP in Peninsula Malaysia with installed capacity of 8000 MW.

He started his career as a Planning Engineer with the National Electricity Board (NEB) of Malaysia in 1973 after obtaining his Bachelor of Science (Honours) in Mechanical Engineering from Brighton Polytechnic (now Brighton University), United Kingdom. Since then he has served in various capacities in the utility areas of project design, construction and management, operation and management of power plants, fuel procurement and business management.

Mr Abdul Hadi Deros is a member of the Institution of Engineers (MIEM), Malaysia and a Professional Engineer (P.Eng), Malaysia. In 1995 he obtained an MBA from Ohio University, Athens, United States.

He has played an active role in the development of regional cooperation among players of the Asia-Pacific electricity supply industry since 1995 when he became the Secretary-General of the Association of the electricity Supply Industry for Asia and Pacific (AESIEAP) based in Hong Kong for 1996-1997. He was also the Chairman of the Organising Committee for the International Power Conference CEPSI held in Kuala Lumpur in 1996. He participates actively in the Malaysia IPP Association where, in 2000/2001, he was elected the Vice President.

**DR BONI SIAHAAN, ME (Hons)**

**Deputy Assistant for Mining and Energy Business**

**Ministry of State Owned Enterprises,**

**Indonesia.**

**Education:**

Mining Engineer (Ir.), Bandung Institute of Technology, Indonesia, 1977.

ME (Hons), University of Wollongong, NSW, Australia, 1986

Major in Underground (Coal) Mine Design.

PhD, University of Wollongong, NSW, Australia, 1990

Major in (Coal Mines) Gas Flow Engineering.

**Occupation:**

Ministry of Mines and Energy / Ministry of Energy and Mineral Resourcec, Republic of Indonesia, Jakarta, 1979 – 2002

Chief Editor/Columnist : Warta PERHAPI (Official magazine of PERHAPI, Jakarta, Indonesia), 1994 – 1997.

Membership:

PII (Indonesian Engineers Association)

PERHAPI (Indonesia Mining Experts Association)

AusIMM (Australian Institute of Mining and Metallurgy).

Jakarta, March 2002

**TRAN VAN MY**

**Deputy Manager General**

**Institute of Mining, Science and Technology (IMSAT)**

**Vietnam**

**Education:**

1. Diploma: Eng. In Civil Industrial Construction, Certified by Wroclaw University, Poland. 1975.
2. Diploma: in Politics, Certified by Ho Chi Minh National Political Academy, Hanoi, Vietnam. 1998.
3. Certificate of Office Computer Operating, Certified by Informatic Center of Hanoi. 1995.
4. Certificate of English, Certified by Hanoi University for Teachers of Foreign Languages, 1997.

**Work Experience:**

From 1975 To 1977: Staff, Institute of Electrical Planning and Designing.

*From 1977 Up to now: Institute of Mining, Science and Technology (IMSAT), Vinacoal.*

From 1986 to 1995: Deputy Manager of Planning Department, IMSAT.

From 1995 to 1998: Manager of Planning and Technical Department, IMSAT.

From 1999 Up to now: Deputy Manager General, IMSAT.

From 1980 to 1982: participated in the France-donated Project: “Rock Intergrated transportation in Opencast Coal Mine.

From 2001 to 2006: Participating in the Technical Cooperation Project between the Government of Japan and the Government of The Socialist Republic of Vietnam: Coal Mine Firedamp Gas Management Center Project.

**MISS YAP SIEW HONG**

**Director of Energy Section  
Economic Planning Unit (EPU)  
Malaysia**

**Academic Qualifications:**

- i. B.Econs(Hons), University of Malaya 1974
- ii. M.A.(Economic Policy), Boston University, U.S.A. 1987

**Work Experience**

- i. **1975 – 1985: Economic Planning Unit**
  - a. Assistant Director, Trade and Payments, Macro Economics Section
  - b. Assistant Director, Macro Programming
  - c. Senior Assistant Director, Private Sector Analysis
- ii. **1987 – September 1992: National Institute of Public Administration (INTAN)**
  - a. Senior Programme Coordinator, Centre of Policy Analysis and Development
- iii. **October 1992 – Now: Economic Planning Unit**
  - a. Senior Assistant Director, Trade and Finance, Industry Section (October 1992 – March 2001)
  - b. Director, Energy Section (April 2001 – Now)

**Overseas Experience:**

- i. Secondment to the Department of Trade and Industry, South Australia (April 1981 – March 1982) under the Exchange Programme of Officers between the Governments of South Australia and Malaysia.

**SHIGEHITO TAKAMOTO**

**Department Manager  
Environmental Research Department  
Kure Research Laboratory  
Babcock Hitachi K.K.  
Japan**

Born on 25 March 1949.

Graduated at the Faculty of Technology/Hiroshima University in 1973.

Entered the Environmental Research Department of Kure Research Laboratory at Babcock Hitachi K.K.

Working on development of municipal solid waste incineration, advanced limestone-gypsum FGD process, NO<sub>x</sub> removal by catalysts, VOC gas treatment system, new waste water treatment system and coal gasification system.

**JAMES MACLEAN****President****Dominion Ash CCP Ltd****Canada****Current Occupation:**

President of Dominion Ash CCP Limited, headquarters in Fredericton, New Brunswick, Canada. Current member and past Chairman of CIRCA (Canadian Industries Recycling Coal Ash).

**Education:**

Bachelor of Mechanical Engineering, 1986 - University of New Brunswick  
Bachelor of Science, Biology, 1978 - Acadia University

**Work History:**

Manager Marketing and Business Development, Trans Ash Canada  
Senior Technical Specialist - Corporate By-products Manager, New Brunswick Electric Power Corporation

**LINDSAY JUNIPER****Director, Fuel and Power****Ultra-Systems Technology Pty Ltd****Australia**

Lindsay has had over 35 years experience in the coal and power industries. In this time he has developed technologies and expertise in the use of coal for power generation, including power station planning, economics and operations; combustion research; coal and power plant feasibility studies and evaluation and specialised testing of thermal coals. Lindsay commenced his career with the (then) State Electricity Commission of Victoria (Australia) at their Herman Research Laboratory, where he was involved in the research program on the combustion of Victorian brown coals. Since that time he has worked in his own consultancy, and was Manager Combustion at ACIRL Ltd, in charge of the Australian Combustion Technology Centre. In this position he was responsible for the pilot scale testing and evaluation of over 100 thermal coals from Australia and overseas. He has over 50 papers in the technical press to his credit.

Currently, Lindsay is consulting to the coal and power industries on all of the above, and has extended his expertise into renewable energy technologies. In particular, he has been engaged on a number of briefs dealing with the application of different fuels to power generation and the environmental and cost implications of such projects. He has played an active role in the research and development activities of the coal industry and is considered one of Australia's leading experts on the impact of coal properties on power plant performance and costs.

**HIROAKI ICHINOSE**

**Deputy Director**

**Coal Industry Division**

**Coal and New Energy Department**

**Agency of Natural Resources and Energy (ANRE)**

**Ministry of Economy, Trade and Industry**

**EDUCATION:**

Faculty of Engineering, the University of Tokyo, 1991

**EMPLOYMENT RECORD:**

September 2000 – present:

Deputy Director, Coal Industry Division, Coal and New Energy Department, Agency of Natural Resources and Energy (ANRE), Ministry of Economy, Trade and Industry (METI).

October 1999:

Visiting Researcher of State University of Texas, US

July 1999:

Assistant Director, Technology Policy Planning Division, General Coordination Department, Agency of Science and Technology, MITI

July 1998:

Deputy Director, Medical and Welfare Equipment Technology Development Coordinate Office, General Coordination Division, Agency of Industrial Science and Technology, MITI.

April 1996:

Assistant Director, Aircraft Division, Equipment Bureau, Japan Defense Agency

May 1994:

Assistant Director, Technology Promotion Office, Electric Power Generation Division, Public Utilities Department, ANRE, MITI

July 1992:

Aircraft and Defense Production Division, Machinery and Information Industries Bureau, MITI

April 1991:

Start MITI (Statistics Analysis Division, Research and Statistics Department, Minister's Secretariat, MITI)

**NATALIE ROLPH**

**Chief Economist**

**Black & Veatch Energy Services Division**

**USA**

Ms. Rolph is Chief Economist in the Energy Services Division of Black & Veatch and former head of the Strategic Planning Practice. She is responsible for regional electric system modeling, electric load forecasting, forward price curve forecasting, asset valuation, and economic feasibility studies.

Her clients, both US and international, include energy companies, public and investor-owned electric utilities, and government agencies. She also oversees the development of economic models to support chilled water, steam and electric master planning for cities, industrial complexes, wastewater districts, and universities. Her experience includes preparation of the socioeconomic and cost/benefit portions of some of the first Environmental Impact Statements produced in the US.

Ms. Rolph has over 25 years experience in the electric power industry.

**MR EIKI SUZUKI**

**Assistant Manager**

**Coal Gasification Group**

**Wakamatsu Coal Utilization Research Center**

**Electric Power Development Co., Ltd**

**Education:**

1992: Graduated from Toyohashi University of Technology with a master's degree in electric engineering.

**Professional career:**

1992: Joined Matsushima Coal Power Plant, EPDC (Electric Power Development Co., Ltd)

1998 – present: engaged in EAGLE Project (current job).

**DR ZHAO ZONGRANG**

**Deputy Director**

**Secretariat & Project Management Dept.**

**Thermal Power Research Institute**

**State Power Corporation of China**

**Xi'an, Shaanxi Province**

**PR China**

Dr Zhao Zongrang is currently the deputy director of the secretariat and project management at Thermal Power Research Institute (shortly for TPRI). He received Bachelor's degree in thermal power engineering from the Xi'an Jiaotong University, PR China in 1984 and obtained Master's degree in the same field from TPRI in 1987.

After graduation he has been worked at TPRI conducting experimental studies and field tests as well as computational modelling for utility boiler combustion performance for over 10 years. In recent years he has been actively involved in the research program management at TPRI, especially in the field of clean coal technologies.

**MR LI GUANGHUA**

**Director of Section**

**State Power Corporation**

**PR China**

Mr. Li Guanghua graduated (Eng. Master Degree) from the Department of Power Machinery of Xian Jiaotong University in 1989. Then he worked in Thermal Power Research Institute to study CFBC and other CCT technology.

Since 1997, Mr. Li has worked in the State Power Cooperation of China and is responsible mainly for the CCT and other technologies for thermal power plants.

He is very knowledgeable about the CCT technologies and their development in China.

**DR SUNG-CHUL SHIN**

**Senior Advisor**

**Korea Institute of Energy Research (KIER)**

**Korea**

**Education:**

(Major: Chemical Engineering)

(Ph.D) from Colorado School of Mines (U.S.) in 1988.

(M/S) from Korea Advanced Institute of Science & Technology (KAIST) in 1978.

(B/S) from Yonsei University in Seoul in 1976.

**Career:**

Joined in “Ministry of Energy & Resources” in 1978 as Governmental Officer (Assistant Director).

President of “Resources Utilization Pavillion” in Daejeon International Exposition Committee in 1993.

Representative of Korean Government for the OPCW (Organization of Protection of Chemical Weapon, Hague, Netherlands) in 1994.

Director of Energy Technology Division, Ministry of Commerce, Industry & Energy (MOCIE), Korea in 1996.

Director of Energy Management Division, MOCIE in 1997.

Director of Energy Policy Division, MOCIE in 1998.

Joined in KIER from 2000 to present.

**DR JAE-GOO SHIM****Environment & Chemistry Group****Korea Electric Power Research Institute (KEPRI)****Daejeon, Korea****Education:**

1994: Received M.S in Industrial Chemistry from Kyungpook National University, Korea

1999: Received Ph.D in Chemistry from Tohoku University, Japan (Monbusho Scholarship Student)

**Experience:**

1994 - Senior Member of Technical Staff, KEPRI

Present : Interest research areas are i) development of carbon dioxide reduction technology, ii) simultaneous removal of SO<sub>2</sub> and NO<sub>x</sub> using plasma.